Performance Data Sheet

AE4456Y-AA1C

General Information

Model	AE4456Y-AA1C	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	2290	2460	2460	2350	2160	1960	1780
	Watts	339	399	440	466	481	489	494
	Amps	5.47	5.74	5.94	6.10	6.21	6.28	6.33
	Lb/h	25.5	31.6	34.5	35.0	34.2	32.8	31.6
10	Btu/h	2760	2880	2840	2680	2450	2200	1970
	Watts	375	431	470	495	511	521	529
	Amps	5.74	5.99	6.19	6.34	6.45	6.54	6.60
	Lb/h	32.3	37.8	40.1	40.2	38.8	36.8	35.2
15	Btu/h	3280	3360	3270	3060	2780	2480	2210
	Watts	409	463	501	526	542	554	566
	Amps	5.98	6.22	6.41	6.57	6.69	6.79	6.88
	Lb/h	39.6	44.6	46.5	46.0	44.2	41.8	39.7
20	Btu/h	3840	3880	3740	3490	3170	2820	2500
	Watts	444	495	532	557	575	589	604
	Amps	6.20	6.44	6.63	6.79	6.93	7.05	7.16
	Lb/h	47.5	52.1	53.5	52.6	50.4	47.6	45.1
25	Btu/h	4450	4440	4260	3960	3590	3200	2840
	Watts	479	528	563	589	608	626	645
	Amps	6.41	6.64	6.84	7.01	7.16	7.31	7.46
	Lb/h	55.9	60.1	61.1	59.9	57.3	54.1	51.3
30	Btu/h	5090	5040	4810	4470	4060	3620	3210
	Watts	513	560	595	621	643	663	687
	Amps	6.60	6.84	7.04	7.23	7.41	7.58	7.77
	Lb/h	64.8	68.7	69.4	67.9	64.9	61.5	58.4
35	Btu/h	5770	5670	5410	5020	4560	4080	3630
	Watts	546	593	627	655	678	702	730
	Amps	6.79	7.03	7.25	7.46	7.66	7.87	8.10
	Lb/h	74.2	77.8	78.2	76.4	73.3	69.6	66.2
40	Btu/h	6480	6340	6030	5600	5100	4580	4080
	Watts	580	625	660	688	714	742	775
	Amps	6.98	7.23	7.47	7.70	7.94	8.19	8.46
	Lb/h	84.0	87.3	87.6	85.6	82.3	78.4	74.9

45	Btu/h	7220	7030	6680	6210	5670	5100	4560
	Watts	612	657	692	722	751	783	822
	Amps	7.17	7.44	7.70	7.96	8.24	8.53	8.85
	Lb/h	94.2	97.4	97.5	95.4	91.9	87.9	84.3
50	Btu/h	7980	7750	7360	6840	6260	5650	5070
	Watts	645	688	724	757	789	826	870
	Amps	7.38	7.67	7.95	8.25	8.57	8.91	9.28
	Lb/h	105	108	108	106	102	98.0	94.3
55	Btu/h	8760	8490	8060	7500	6870	6220	5600
	Watts	676	720	757	792	828	869	919
	Amps	7.60	7.91	8.23	8.57	8.93	9.32	9.76
	Lb/h	116	119	119	116	113	109	105
60	Btu/h	9560	9250	8770	8180	7510	6820	6150
	Watts	707	750	789	827	866	913	969
	Amps	7.84	8.18	8.54	8.92	9.33	9.78	10.3
	Lb/h	127	130	130	128	124	120	117

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.158320E+04	-1.378212E+03	-6.043622E-01	-2.507342E+02
C2	1.530585E+02	2.155054E+01	1.504342E-01	2.250322E+00
C3	3.555407E+02	3.876476E+01	1.209274E-01	6.818615E+00
C4	1.027448E+00	-5.192871E-02	-1.510790E-03	3.705619E-03
C5	-9.259149E-01	-2.799715E-01	-1.618752E-03	-1.421548E-02
C6	-2.979345E+00	-2.730734E-01	-7.244737E-04	-5.448437E-02
C7	-4.767212E-03	-9.635753E-05	7.261171E-06	-4.074440E-05
C8	1.127415E-03	6.574125E-04	9.296463E-06	1.141108E-04
C9	-1.165846E-04	1.227774E-03	6.796425E-06	8.362828E-06
C10	7.960561E-03	6.428352E-04	1.429437E-06	1.432399E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature